

Bureau of Waste Prevention – Industrial Wastewater

BWP IW 38 & BWP IW 39

Permit for Industrial Sewer User

Tra	ansmittal Number	

Facility	D#	(if	known)
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W210520

DEP Use Only

Date Received

Important Instructions for Completing This Form

The questions on this form apply to existing and new facilities discharging industrial wastewater to sewers. If you are completing this form for an existing facility, answer the questions as they apply to its current status. If you are completing this form for a new facility, your answers will reflect your commitment to comply with the requirements as set forth in each question.

Existing facilities are defined as facilities in existence as of July 12, 2007. New facilities are defined as facilities constructed after July 12, 2007.

Answer all questions, except those that you are directed to skip. Please DO NOT answer questions that you are directed to skip

Permit Category (Select One)

☑ BWP IW 38: Industrial Sewer User in IPP POTW discharging more than 50,000 GPD

☐ BWP IW 39: Industrial Sewer User in Non-IPP POTW discharging more than 25,000 GPD

A. Facility Information

 Vitasoy USA

 1a. Facility Name
 1 New England Way

 1b. Facility Address 1
 1 New England Way

 1c. Facility Address 2
 Name

 Ayer
 MA
 01432

 1d. City
 1e. State
 1f. Zip Code

 978-772-6880
 978-772-6881

 1g. Phone Number
 1h. Fax Number

 94-25-59642



Important:

forms on the

computer, use

use the return

only the tab key to move your cursor - do not

When filling out



978-772-6880 978-772-6881				
1g. Phone Number		1h. Fax Number	<u> </u>	
94-25-59642		•		
1i. Federal Employer T	ax Identification Number (FEIN o	r TIN)	·	
Mailing Address:	☑ Check here if same	as Facility Address and s	skip to Contact Inform	ation.
2a. Mailing Address: St	reet or P.O. Box	<u> </u>		
2b. Mailing Address 2				
2c. City		2d. State	2e. Zip Code	
Contact Information:				
Dan MacPhail	•		•	
3a. Contact Person Nar	ne			
Project Engineering	g Manager	•		
3b. Contact Person Title	e .			
978-772-6880		3130		
3c. Phone Number		3d. Extension		
dan macahail@vita	isov∋isa com		÷	

3e. Email Address



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R	Industrial	Wastewater	Information
D .	muusma	vvastewater	IIIIUIIIIauuii

☐ 1a. New Constru☐ ☐ 1c. Increasing FI ☐ 1e. Existing Unpo (Constructed) 2. List, in descend best describe the	ow From Existing Contermitted Connection Before 7/12/07) ling order of significate facility producing	☐ 1b. nection ☐ 1d. nection ☐ 1d. nce, the Standard Inthe discharge in term	Permit Renewal New or Modified Industr Pretreatment System (I	WPS)
☐ 1c. Increasing FI ☐ 1e. Existing Unpo (Constructed) 2. List, in descend best describe the	ow From Existing Contermitted Connection Before 7/12/07) ling order of significate facility producing	nection 1d.	New or Modified Industr Pretreatment System (I	WPS)
✓ 1e. Existing Unpo (Constructed2. List, in descend best describe the	ermitted Connection Before 7/12/07) ling order of significate facility producing	ance, the Standard In	Pretreatment System (I	WPS)
(Constructed 2. List, in descend best describe the	Before 7/12/07) ling order of significate facility producing	the discharge in term	dustrial Classification	
best describe th	ne facility producing	the discharge in term	dustrial Classification	(010)
	open, cas.	fication title. (See Ap	ns of the principal prode opendix B in the Instruc	ucts or services
2099		Food	Preparations - NEC	
2a. SIC Code	·	Descrip		
2b. SIC Code	· · · · · · · · · · · · · · · · · · ·	Descrip	tion	·
2c. SIC Code		Descrip	tion	
2d, SIC Code		Descrip	tion	, ,
facility going to	1 3a. Connection #	Treatment Works (PC 2 3b, Connection #	3c. Connection #	3d. Total Flow,
	20000	30, Collisction #	JC. Connection #	20000
SANITARY	GPD	GPD	GPD	GPD
		109540		109540
INDUSTRIAL	GPD	GPD	GPD	GPD
	20000	109540		129540
	GPD	GPD	GPD	GPD
TOTAL	GPD		4	
. ,	pliance with the Mass	sachusetts Historical	Commission requiren Massachusetts Historica an Submit This Applicati	l Commission
4. Are you in comp ☑ Yes [oliance with the Mass ☐ No* *If No, Y Require	sachusetts Historical ou Must Comply With I ments BEFORE You C	Massachusetts Historica	l Commission ion.



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treated, before discharg		ur industrial wastewater before	pretreatment, or it no
⊠ 6a. Metals, Asbestos, Cya	nide, Phenols		
If Metals, Asbestos, Cyanic (mg/L):	de, or Phenols are	present, provide concentration	s in milligrams per lite
1. Antimony (total) (Sb)	mg/L	9. Nickel (total) (Ni)	0.058 mg/L
2. Arsenic (total) (As)	mg/L	10. Selenium (total) (Se)	mg/L
3. Beryllium (total) (Be)	mg/L	11. Silver (total) (Ag)	mg/L
4. Cadmium (total) (Cd)	mg/L	12. Thallium (total) (TI)	mg/L
5. Chromium (hexavalent)	mg/L	13. Zinc (total) (Zn)	0.057 mg/L
6. Chrome (total) (Cr)	mg/L	14. Asbestos	mg/L
7. Copper (total) (Cu)	0.029 mg/L	15. Cyanide (total) (CN)	mg/L
8. Lead (total) (Pb)	mg/L	16. Phenols (total)	mg/L
		he Instructions.) tal Toxic Pollutants concentration	on in micrograms per
(ug/L): NONE 6b1. Total Toxic Pollutants Concer	ntration (ug/L)	NOTE: Use the Toxic Pollut	
☐ 6c. Total Petroleum Hyd	rocarbons (TPH)	> 15 mg/L	
☐ 6d. pH <5 and >10 Stand	dard Units (S.U)		
⊠ 6e. Other*			
*If Other Pollutants are pres			·
BOD & TSS Limits = 400 m	g/l, average for D	ec 07, Jan & Feb 08 = < 100. O	il and grease limit = 1



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Lacility	1011		WILL AND ARTER		
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i. industria	i Wastewater infoi	rmation (continued)
7. Is Mercury discharge?	(Hg) present in your indust	trial wastewater before pretreatment, or if not treated, before
☐ Yes	⊠ No*	*If No, skip to Question 8.
7a. If Yes, haveliminate the i		le mercury sources and taken all reasonable steps to
☐ Yes*	□ No	*If Yes, skip to Question 8.
7b. If No, expl	ain why.	
	e name of the Publicly Own See Appendix C in the Inst	ned Treatment Works (POTW) that receives your tructions.)
your local FO	e a current sewer connecti TW? (See Section 17B in tl	on discharge permit or a current written approval issued by he Instructions.)
⊠ Yes		he Instructions.)
⊠ Yes	ΓW? (See Section 17B in tl ☐ No*	he Instructions.) *If No, you must obtain either a permit or, if a permit is no required, a written approval from your local POTW to
⊠ Yes	ΓW? (See Section 17B in tl ☐ No*	he Instructions.) *If No, you must obtain either a permit or, if a permit is no required, a written approval from your local POTW to discharge BEFORE you can submit this application. g information, then skip to Question 10.
⊠ Yes	TW? (See Section 17B in the last of the last of the last of the following the following the following the following the last of the last	he Instructions.) *If No, you must obtain either a permit or, if a permit is no required, a written approval from your local POTW to discharge BEFORE you can submit this application. g information, then skip to Question 10.
☑ Yes If you have a position of the second	TW? (See Section 17B in the last of the last of the last of the following the following the following the following the last of the last	*If No, you must obtain either a permit or, if a permit is no required, a written approval from your local POTW to discharge BEFORE you can submit this application. g information, then skip to Question 10. 12/31/2010 9b. Permit Expiration Date
✓ Yes If you have a position of the second	TW? (See Section 17B in the No* ☐ No* Dermit, provide the following	*If No, you must obtain either a permit or, if a permit is no required, a written approval from your local POTW to discharge BEFORE you can submit this application. g information, then skip to Question 10. 12/31/2010 9b. Permit Expiration Date see following information:
☑ Yes If you have a position of the second	TW? (See Section 17B in the No* □ No* Dermit, provide the following or written approval, provide the following or the new termits.	*If No, you must obtain either a permit or, if a permit is no required, a written approval from your local POTW to discharge BEFORE you can submit this application. g information, then skip to Question 10. 12/31/2010 9b. Permit Expiration Date
☐ Yes If you have a purple of the policy o	TW? (See Section 17B in the No* □ No* Dermit, provide the following or written approval, provide the val Letter	*If No, you must obtain either a permit or, if a permit is no required, a written approval from your local POTW to discharge BEFORE you can submit this application. g information, then skip to Question 10. 12/31/2010 9b. Permit Expiration Date te following information: Mike Madigan



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B	. Industrial Wa	astewater Infor	natior	(continued)
		current sewer connect uthority? (See Section		arge permit or a current written approval issued by ne Instructions.)
	☐ Yes	□ No*	fr	No, you must obtain either a permit or written approval om your local Sewer Authority to discharge BEFORE ou can submit this application.
	If you have a permi	t, provide the following	informat	ion, then skip to Question 12.
	11a. Permit Number			11b. Permit Expiration Date
	If you have a writter	n approval, provide the	following	g information:
	11c. Date of Approval Le	etter		11d. Name of Person Who Signed the Letter
		urrently classified as a Appendix D in the Inst		cal Industrial User (CIU) pursuant to Federal)
	☐ Yes	⊠ No*	*[f	No, skip to Section C.
	12a. List all the Cate	egorical Pretreatment	Standard	s applicable to your facility.
	12a1. Part Number		-	Point Source Category
	12a2. Part Number			Point Source Category
	12a3. Part Number			Point Source Category
	12a4. Part Number			Point Source Category
				: .
С.	Industrial Wa	stewater Pretre	atmer	nt System
	Do you have an o wastewater?	n-site industrial waste	water pre	treatment system (IWPS) to treat your industrial
	⊠ Yes	□ No*	*If	No, skip to Section D.
	1a. How many IWPS	Ss do you have?		
·· ···	1. Number		NC Ad	TE: If you have more than one IWPS, please use an ditional IWPS Form for each additional IWPS.
	1b. Provide a unique	identifier (i.e. name) f	or this IV	/PS:
	Vitasoy WWTP			
	Identifier/Name	-		



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Pe	ermit for Indu	ıstrial Sewer User	•	Facility ID# (if known)		
C	. Industrial	Wastewater Pret	reatment System (co	ntinued)		
	1c. What is the	Total Design Capacity o	f this IWPS?			
	135,000			•		
	Gallons Per Day			•		
	1d. What is the	Average Daily Flow of the	is IPWS? (Estimate if this is	a new facility.)		
	75,000	-				
	Gallons Per Day					
		Maximum Daily Flow of	this IWPS? (Estimate if this is	s a new facility.)		
	109,540 Gallons Per Day		<u> </u>			
	Callotts 1 Ct Day					
			ed to meet all local discharge rds in 40 CFR Chapter I, Sub	standards and the applicable chapter N?		
	⊠Yes	□ No*		nmediate steps to address the non- ou can submit this application.		
,	3. Does this IW as defined in 3		strial wastewater or hazardous	s industrial wastewater sludge		
	Yes	⊠ No*	*If No, skip to Question	12.		
-	3a. Are you tre	ating concentrated chemi	cal baths, e.g. spent chemica	l baths, or off-specification		
	☐Yes	□ No*	*If No, skip to Question	4.		
	3b. If Yes, describe the concentrated chemical baths you are treating.					
	:			<u> </u>		
		VPS meet the requiremer		ntegral part of the manufacturing		
	☐ Yes*	□No	*If Yes, skip to Question	n 7.		
	5.Do you store hazardous industrial wastewater or hazardous industrial wastewater sludge that is generated in your IWPS or in your production processes, in tanks or containers?					
	located in a Drink	king Water Zone (see Sectio	of hazardous industrial wastewate n 17C of the Instructions; referen or BWP IW 39 permit. You mus	ce language in 310 CMR 30.605),		
	☐Yes	□ No*	*If No, skip to Question	7.		



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	wastewater Pre	treatment System (continued)		
6. Are you in compliance with the requirements for tanks and containers in 310 CMR 30.342 at 343? (See Section 17C in the Instructions)				
☐Yes	□ No*	*If No, you must take immediate steps to address the nor compliance BEFORE you can submit this application.		
7. Do you have identification num	a U.S. Environmental F	Protection Agency (EPA) hazardous waste generator		
□Yes	□ No*	*If No, skip to Question 7b.		
7a. What is your	r EPA identification nun	nber?		
	·	Skip to Question 8.		
EPA ID#				
7b. Explain why	you do not have an EF	A identification number.		
8. Do you have a	a visible sign in place th	nat warns against unauthorized entry into the IWPS area?		
☐ Yes*	□No	*If Yes, skip to Question 9.		
8a. Explain why				
, , ,	you do not have a visib	ole sign in place.		
	you do not have a visib	ole sign in place.		
	you do not have a visib	ole sign in place.		
	you do not have a visib	ole sign in place.		
		ole sign in place. Imment for the IWPS? (See Section 17C in the Instructions.)		
9.Do you have th ☐ Yes*	ne required spill contain □ No	ment for the IWPS? (See Section 17C in the Instructions.)		
9.Do you have th ☐ Yes*	ne required spill contain □ No	ment for the IWPS? (See Section 17C in the Instructions.) *If Yes, skip to Question 10.		
9.Do you have th ☐ Yes*	ne required spill contain ☐ No you do not have the rec	ment for the IWPS? (See Section 17C in the Instructions.) *If Yes, skip to Question 10.		
9.Do you have th ☐ Yes*	ne required spill contain ☐ No you do not have the rec	ment for the IWPS? (See Section 17C in the Instructions.) *If Yes, skip to Question 10. quired spill containment.		
9.Do you have th ☐ Yes* 9a. Explain why	ne required spill contain ☐ No you do not have the rec	ment for the IWPS? (See Section 17C in the Instructions.) *If Yes, skip to Question 10. quired spill containment.		



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C.	Industrial W	/astewat	er Pretreatn	nent System (co	ontinued)				
	11. Are you in compliance with the flood-proofing provisions in 310 CMR 30.701(2)? (See Sectio 17C in the Instructions.)								
	☐Yes	□ No*		*If Yes, skip to Questi	on 12.				
	11a. Explain why	you are not	in compliance with	h the flood-proofing p	ovisions in 310 CM	/IR 30.701(2).			
					<u>:</u>				
		 							
	12. What type of	IWPS do you	ı have? (Check al	l that apply.)					
	☐ Fully Automate	Fully Automated Industrial Wastewater Pretreatment System (FAIWPS)							
	☑ Continuous Dis	scharge IWF	PS .	☐ Batch IWPS	·				
	13. Is the IWPS e	exempt from	classification? (Se	ee Section 17C in the	Instructions.)				
	☐ Yes*	□No		*If Yes, skip to Question	on 14.				
	13a. What is the o		of this IWPS? (Se	ee 257 CMR 2.13; Cla	assification of Wast	ewater			
	☐ Class 1I		☐ Class 2I		☐ Class 3I				
	☐ Class 4I		☐ Class 5 or 6C	;	☐ Class 1M				
	☐ Class 2M		☐ Class 3M		⊠ Class 4M				
	13b. How was the IWPS' classification determined?								
	☐ In accordance with the requirements in 314 CMR 7.05(2)(g) 4. c. or d.								
	☐ By the Board o	f Certificatio	n of Operators of	Wastewater Treatmer	nt Facilities				
	⊠ Both					<u>-</u>			
	14. Is the IWPS st 17C in the Instruc		ordance with the r	equirements of 314 C	MR 7.05(2)(g) 5? (See Section			
	⊠ Yes*	□ No		*If Yes, skip to Question	on 15.				



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ndustriai vva	astewater Pre	treatment System (continued)			
14a. Explain why the IWPS is not staffed in accordance with 314 CMR 7.05(2)(g) 5.					
		· · · · · · · · · · · · · · · · · · ·			
NPS? Or, is this a	application a request	nder Permit Category BWP IW 38 or BWP IW 39 for this for modification of this IWPS that currently has a BWP IW			
☑ Yes*	□No	*If Yes, you need to submit as an attachment the proc flow diagram and description of the principal treatment processes for your IWPS. Otherwise, skip to Question			
6. How many attac	chments are included	d with this application in response to Question 15?			
- Attachments B.	and C.				
umber of Attachments					
		/PS been designed and constructed in compliance with the et forth in 314 CMR 7.05(2)(g)3? *If No, skip to Question 17b.			
	assachusetts Registe	ered Professional Engineer (MAPE) signature date on the			
ennett & Associate	es 1987	Skip to Question 18.			
ate					
7b. Explain why yo ompliance with the	our sewer connection design and constru	n and IWPS have not been designed and constructed in ction standards as set forth in 314 CMR 7.05(2)(g)3.			
		<u> </u>			
		out the Massachusetts Registered Professional Engineer gned your engineering plans:			
l. Bennett		612 425 5740			
i. Denneu	·	012-433-3140			
a. Name ot Available	· · · · · · · · · · · · · · · · · · ·	612-435-5748 18b. Phone Number MN PE # 12399			
	4a. Explain why the Associate Associ	5. Is this your first permit application uNPS? Or, is this application a request BWP IW 39 permit? Yes* No No How many attachments are included Attachments B. and C. umber of Attachments Have your sewer connection and IW esign and construction standards as selly yes No* No No Explain why your sewer connection and IW encering plans? ennett & Associates 1987 atte S. Explain why your sewer connection and IW esign and construction standards as selly included the Massachusetts Register atte. B. Explain why your sewer connection ompliance with the design and construction and construction and construction who is a provide the following information about APE) who reviewed, stamped, and signature is the series of the ser			



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C. Industrial	Wastewater Pr	etreatment System (continued)				
19. Do you ha		and maintenance manual that complies with the procedures and				
⊠ Yes*	□ No	*If Yes, skip to Question 20.				
19a. Explain v	19a. Explain why you do not have the required IWPS operation and maintenance manual.					
20. Are you ke	eeping your IWPS opera	ation and maintenance manual current?				
⊠ Yes	□ No					
21. Are you im	plementing your IWPS	operation and maintenance manual?				
⊠ Yes	□ No					
). Monitorin	g, Reporting &	Recordkeeping				
		ective sewer discharge permit(s), IWPS plan(s), and current) (as applicable) on-site at all times?				
⊠ Yes*	□ No	* If Yes, skip to Question 2.				
1a. Explain wh	1a. Explain why you are not keeping these records on-site at all times.					
		· · · · · · · · · · · · · · · · · · ·				
records, opera	ition and maintenance r ementation of the safety	ecords including your wastewater monitoring and analyses records and logs, bills of lading, summary reports of all incidents plan, and hazardous waste manifests (as applicable) on-site				
⊠ Yes*	□ No	* If Yes, skip to Question 3.				
2a. Explain wh	ny you are not keeping t	hese records on-site for at least three years.				
. ·		•				
·						



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D. Monitoring, Reporting & Recordkeeping (continued)

3. [Reserved for Toxics Reporting]

Additional reporting requirements will be added to this section in the future.

Ε.	General 8	Specific Prohib	itions	
	After carefully reviewing all of the general and specific prohibitions listed below, are you in compliance with these General and Specific Prohibitions?			
	⊠ Yes*	□ No	*If Yes, read Section F and then complete Section G.	
		the prohibitions you are it to this form, if necessary	not in compliance with and explain why. Attach an additional	

- 1. General Prohibitions. The permittee shall not:
 - a. Discharge, or cause to be discharged to a POTW, any substances, materials, or wastewater that may:
 - i. harm the sewers, POTW wastewater treatment process or equipment;
 - ii. have an adverse impact on the receiving waters; or
 - iii. otherwise create a nuisance or endanger public health, safety, or the environment.
 - b. Introduce pollutants into POTWs that pass through the POTW or interfere with its operation or performance.
 - c. Discharge wastewater or allow discharge of wastewater through any sewer connection that would result in a hazard to the public health or safety.
 - d. Discharge bypass wastewater or allow discharge of bypass wastewater through any sewer connection. If bypassing due to an emergency condition occurs, the Department and POTW shall be notified in accordance with 314 CMR 7.04(3). Such notification or its acknowledgement shall not be construed as permission by the Department or POTW to discharge bypass wastewater.
 - e. Discharge hazardous waste or allow the discharge of hazardous waste through any sewer connection.
- **2. Specific Prohibitions.** The permittee shall not introduce into a POTW or its wastewater collection system the following:
 - a. Pollutants which may create a fire, explosion, or other hazard in the POTW or its wastewater collection system.
 - b. Pollutants which may cause corrosive structural damage to the POTW or its wastewater collection system. In no case shall discharges with a pH lower than 5.0 Standard Unit (S.U) or more than 10.0 S.U. be allowed, unless the local limit allows such discharges.
 - c. Solid or viscous pollutants in amounts which may cause obstruction to the flow in the POTW or its wastewater collection system or may result in interference.
 - d. Any pollutant, including oxygen-demanding pollutants, discharged at a flow rate or pollutant concentration that will cause interference with the POTW or its wastewater collection system.
 - e. Heat in amounts which may inhibit biological activity in the POTW, resulting in interference. In no case shall heat in such quantities that the temperature at the POTW treatment plant exceeds 40° C (104° F) be discharged, unless the Department, upon request of the POTW, approves alternate temperature limits.



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F. Additional Conditions

a. All discharges shall be in compliance with the terms and conditions of this permit. The discharge of any wastewater at a level in excess of that identified and authorized by this permit shall constitute a violation of the terms and conditions of this permit. Such a violation may result in the imposition of civil and/or criminal penalties as provided for in M.G.L. c.21, Section 42.

b. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

i. Violation of any terms or conditions of the permit;

ii. Obtaining a permit by misrepresentation or failure to disclose fully all relevant facts; or

iii. A change in conditions or the existence of a condition, which requires either a temporary or permanent reduction, or elimination of the authorized discharge.

c. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges; nor does it authorize or relieve the permittee of any liability for any injury to private property or any invasion of personal rights; nor any infringement of Federal, State, or local laws or regulations; nor does it waive the necessity of obtaining any local assent required by law for the discharge authorized herein by the Department.

d. The provisions of this permit are severable, and the invalidity of any condition or subdivision thereof

shall not make void any other condition or subdivision thereof.

- e. All information and data provided by an applicant or a permittee identifying the nature and frequency of a discharge shall be available to the public without restriction. All other information (other than effluent data) which may be submitted by an applicant in connection with a permit application shall also be available to the public unless the applicant or permittee is able to demonstrate that the disclosure of such information or particular part thereof to the general public would divulge methods or processes entitled to protection as trade secrets in accordance with the provisions of M.G.L. c.21, Section.27(7). Where the applicant or permittee is able to so demonstrate, the Department shall treat the information or the particular part (other than effluent data) as confidential and not release it to any unauthorized person. Such information may be divulged to other officers, employees, or authorized representatives of the Commonwealth or the United States Government concerned with the protection of public water or water supplies.
- f. Transfer of Permits. Any sewer system connection permit authorizing an industrial discharge to a sewer system is only valid for the person to whom it is issued, unless prior to transfer:
 - i. The current permittee notifies the Department in writing at least 30 days in advance of the proposed transfer date; and
 - ii. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibilities, and liability to the new permittee.
- g. This permit authorizing the discharge expires five (5) years from the date of issuance. The permittee shall apply for a renewal of this permit at least ninety (90) days prior to the expiration date, in accordance with 314 CMR 7.09(3)(b) for continued lawful discharges beyond the expiration date. h. All solids, sludge, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be collected, treated, and disposed of in accordance with applicable provisions in the following:
 - i. Hazardous waste regulations (310 CMR 30.000).
 - ii. Solid waste regulations (310 CMR 19.00).
 - iii. Sewer discharge regulations (314 CMR 7.00).
 - iv. Any other applicable federal, state and local laws.
- i. All samples shall be analyzed by a Massachusetts Certified Laboratory.
- j. The permittee shall provide the Department, and the Department's employees, authorized representatives and contractors, access at to the facility at all reasonable times, including during wastewater treatment system operation or wastewater discharge, for purposes of conducting activities related to oversight of this permit, including inspections to monitor compliance with the terms herein. The permittee shall allow the Department to obtain information related to compliance with the requirements of this permit. Notwithstanding any provision of this permit, the Department retains all of its access authorities and rights under applicable state and federal law.



Bureau of Waste Prevention - Industrial Wastewater

BWP IW 38 & BWP IW 39

Permit for Industrial Sewer User

W210520)
Transmittal	Number

Facility ID# (if known)

G. Certification Statement

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system. or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true accurate, and complete. I certify that this facility is in compliance with all conditions and requirements of this permit, and all applicable statutes and regulations. I further certify that systems to maintain compliance are in place at the facility or unit and will be maintained even if processes or operating procedures are changed. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations."

(I will be responsible for publication of public notice of the applicable permit proceedings identified under 314 CMR 2.06(1)(a) through (d).)

Printed Name of Applicant			
Project Engineering Manager			
Title			-
signature on original			
Signature of Applicant			
11/20/07 & 3/11/08	•		
Date Signed			
	- '	4	
Name of Preparer	:		
•			
Title			
· .			
Phone Number			

Dan MacPhail

MassDEP Use Only	·	· .	 -	
Special Conditions	:			
See Attachment A.				

This document is a permit issued pursuant to Massachusetts General Laws, Chapter 21, Section 43 and Massachusetts regulations at 314 CMR 7.00. The permittee shall comply with all of the provisions contained in the permit application which are hereby incorporated and made part of this permit.

5/19/08	
Date Issued	
5/19/08	5/19/13
Permit Effective Date	Permit Expiration Date
John F. KRONOPOLUS	Odn 7 Keongsol
Name of Regional BWP Section Chief	Signature



BWP IW 38 & BWP IW 39

Permit for Industrial Sewer User

W210520 Transmittal Number

291979

Facility ID# (if known)

ATTACHMENT A.

Special Conditions:

- 1. The permittee shall maintain compliance with the Town of Ayer's sewer use requirements and the terms and conditions of any applicable wastewater discharge permits issued by the town.
- 2. The permittee shall have on site by July 1, 2008, engineering plans that are certified by a Massachusetts Registered Professional Engineer for the Vitasoy WWTP.
- 3. The documents and materials attached to and referenced in the permit application are incorporated as part of the permit.

ATTACHMENT B.



Vitasoy USA Ayer MA, Wastewater Treatment Plant Descriptive:

- The plant is a biological system.
- All facility wastewater other than domestic enters the wet well in the screen room at the rear of the plant.
- Three pumps will then transfer the wastewater to 1 of 2 places: thru a screen to remove solids and into a transfer tank that then pumps it to a 129,000 gallon equalization tank or in case of a high strength liquid it can be diverted to a 26,000 gallon tank where it can be slowly fed back into the system.
- From the equalization tank the outflow is controlled to give a constant feed to the bio tower recirc tank. On Monday, the equalization tank is empty. Each day, some wastewater is retained in the equalization tank so by late Friday it is almost full to allow continued flow over the weekend thus avoiding large swings of flow to the system. Aeration is used in the tank to keep from going septic.
- From the bio tower recirc tank the wastewater is passed over the bio tower, dependant on BOD strength, in a ratio of water to air of 4:1, 8:1, or 12:1. Aeration is also used in this tank and pH adjustments are made at this point if needed to keep within discharge parameters.
- Outflow from the bio tower recirc tank goes into the clarifier where a slow moving rake system moves solids to one end of the tank where they are pump into a sludge holding tank. A flocculant is added to aid in solids removal.
- Sludge is pumped from the sludge holding tank into a tanker truck to be incinerated off site, approximately 8,000 gallons daily.
- Outflow from the clarifier passes thru the flume for flow measurement and is discharged into the town's system. An automatic sampler takes a 24-hour composite that is sent out for BOD, TSS, and other testing.

PROCESS DESIGN SUMMARY

RAW WASTEWATER CHARACTERISTICS

Average Daily Flow = $Q_{\rm inc}$ = 95,743 gallons Minimum Daily Flow = $Q_{\rm inc}$ = 0 gallons Maximum Daily Flow = $Q_{\rm inc}$ = 165,500 gallons Maximum Daily Flow = $Q_{\rm inc}$ = 165,500 gallons Average BODs = BODs= $q_{\rm inc}$ = 1,717 mg/1 Maximum BODs = BODs= $q_{\rm inc}$ = 2,494 mg/1 Average TSS = TSS_{2v} = 2,000 mg/l (estimated) Production Period = 10-12 hours per day, one down day/week

RAW WASTEWATER LIFT STATION

Raw Wastewater Sump Capacity = 4,165 gallons at HWL Raw Wastewater Sump capacity = +,100 gamons at raw L Number of Pumps = 3 Type of Pumps = Submersible, 5 HP each pump Pump Performance = 178 GPM @ 26.5 ft. head Lift Station capability on pump running = 178 GPM Lift Station capability two pumps running = 356 GPM Lift Station capability three pumps running = 534 GPM

RAW WASTEWATER SCREENING

Type of Screen = Static Sidehill Number of Screens = ons Screen Size = 72 inch horizontal with 0.30 openings Hydraulic Capacity = 806 GPM 129K TRANSFER SYSTEM

Two Pumps = total output of raw wastewater sump One Pump backup, One Pump on VFD to trim load

129K, Tank

Monday empty, fills over week, empties on weekend

BIOTOWER
Containment Structure Diameter = 38 feet
Height of Madia = 28 feet
Volume of Media = 32,000 cubic feet Volume of Media = 32,000 cubic feet
Typo of Media = Syntheir PVC sheet media , 27 - 30 square feet per
Cubic foot, minimum void-to-volume ratio = 95 %
Recycle Ratios = Variable, 4-1, 8-1, & 12-3
Organie Loading = 43 lbs, BOD s-day/1,000 cubic feet media
At BOD-s-wand Q-me
-108 lbs, BOD s-day/1,000 cubic feet media
at BOD s-ma, and Q-ma

Wetting Rates = 904 GPD /1,000 square feet at recycle ratio 4:1

1,808 GPD /1,000 square feet at recycle ratio 8:1

2,732 GPD /1,000 square feet at recycle ratio 12:1

RECYCLE PUMP STATION

Volume = 35,000 gallons Number of Punips = 3 Type of Punips = Submersible 20 HP each punip Punip Performance = 712 GPM @ 59 ft. head Recycle Ratio 4:1 = 712 GPM Recycle Ratio 4:1 = 712 GPM
Recycle Ratio 8:1 = 1,42 GPM
Recycle Ratio 12:1 = 2,136 GPM
Mothod of Mixing = aemtion
Number of biowers = 2
Type of Blower = Centiflyal
Blower Performance = 130 CFM @ 4,3 PSIG
Air tu Volume Ratio = 27 CFM/1,000 CF one blower running
Type of Diffusers = Fine Bubble
Sodium Hudrxide added for PH balance

EFFLUENT CLARIFICATION

Clarifier Size = 12 ft W X 50 ft, L X 9 ft avc. depth Clarifier Volume = 40,400 gallons
Overflow Rate = 425 GPD/ square foot @ average flow
1,275 GPD/ square foot @ peak flow
Number of Sludge Removal Pumps = 2
Type of Pumps = Submersible, I HP each pump
Pump Performance = 266 GPM @24 ft, bead
Floculant added for suspended solids separation

SLUDGE STORAGE Storage Tank Volume = 13,275 gallons
Number of Sludge Removal Pumps = 1
Type of Pump = Submensible, 5 HP
Performance of Pump = 266 GPM @ 24 ft. head

DESIGN EFFLUENT CHARACTERISTICS

Average BODs = 250 mg/l Average TSS = 250 mg/l

EFFLUENT MONITORING

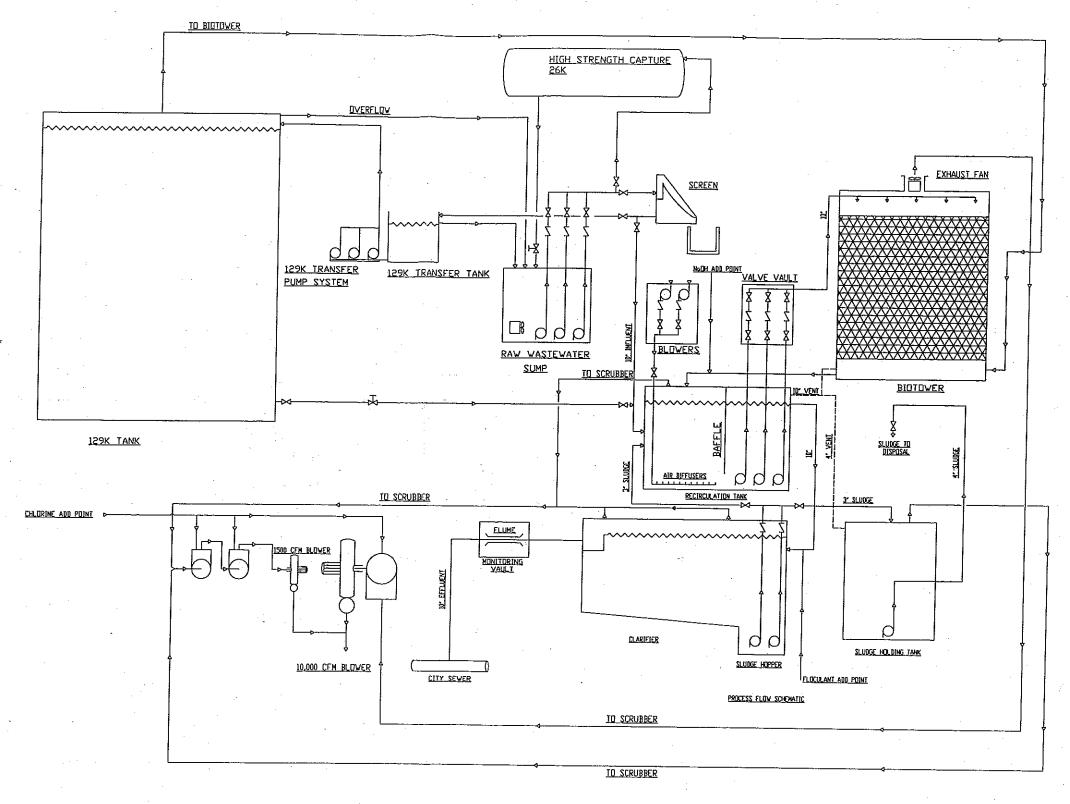
Type of Flow Measuring Device = Pushall Flume

Type of Flow Monitoring Device = Pressure Transducer - Confinuous Strip Chart Recorder
Type of Effluent Sampling-Flow Proportional Composite Refrigerated

Air Scrubber System All Documber of rentilation system on Studge Hulding Tank, Clarifict, and Recirculation Tank feeding into 10,090 CFM blower for Biotower venilation system Chlorine added for odor control

10° Duet from 129K equalization tank to air intake on Biotower

REV	DESCRIPTION	DATE	
		UNIE	APPROVED
1 /	Air scrubber information added	2/14/07	DM
2 /	Added 129K vent pipe	2/12/08	DM



Allwassi		praving title Wastewater Plant			
		DRAVING	NAME	low Schem	natic
BS	SIZE 11 X	17	DWG NO.		REV 2
	SCALE N	TS .		SHEET 1 OF	1